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AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of the Claims:

(Currently Amended) A method for treating a vegetable material formed by member selected

from the group consisting whole oat grain, whole rye grain, whole barley grain and an oat bran

concentrate, with a view to improving the solubility in an aqueous phase of non-starch polysaccharides

 $\beta\text{-glucan}$  or pentosan contained in it the material, characterized in that the material is crushed by using

mechanical energy in an amount of 0.15-0.39 kWh/kg to a particle size less than 100 µm thereby producing a product, at least a major portion of the cells containing 8-glucan or pentosan in the material

being damaged during crushing, to produce particles containing β-glucan or pentosan with an improved

solubility and a capacity to generate viscosity as the product is contacted with the aqueous phase.

2. (Previously Presented) The method as defined in claim 1, characterized in that at least a major

portion of the non-starch polysaccharides contained in the cells end up in particles as produced by the

crushing with a particle size smaller than that of the respective initial cell of the non-starch

polysaccharide.

(Cancelled)

4. (Previously Presented) The method as defined in claim 1, characterized in that the material is

crushed to a particle size less than 50 um.

5. (Previously Presented) The method as defined in claim 4, characterized in that the material

contains aleuron and/or subaleuron layers of grains, which are crushed to a particle size less than 50 µm.

6-8. (Cancelled)

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9. (Previously Presented) The method as defined in claim 1, characterized in that the mechanical

energy is generated by the joint effect of heat, pressure and shearing forces.

10. (Previously Presented) The method as defined in claim 1, characterized in that crushing is

preformed by extrusion.

11. (Previously Presented) The method as defined in claim 10, characterized in that the material to

be crushed is pre-treated to moisture in the range from 6 to 20%.

12. (Previously Presented) The method as defined in claim 1, characterized in that the material to

be crushed is mixed with a greater amount of liquid medium and the mixture is homogenized under a

pressure of 50 to 800 bar.

13. (Withdrawn) A particulate product obtained by a method defined in claim 1, characterized in

that the product contains a vegetable material, which has been crushed to form particles of a size less

than 100 µm, in which at least a major portion of the cells containing non-starch polysaccharides in the material has been damaged, the non-starch polysaccharides contained in the crushed particles having

material has been damaged, are non-stated polysidestandes contained in the ordinate particles in

enhanced solubility in an aqueous phase with which the product has been brought into contact.

14-15. (Cancelled)

16-17. (Currently Amended)

18. (Previously Presented) The method as defined in claim 4, characterized in that the material is

crushed to a particle size less than 20 um.

19. (Previously Presented) The method as defined in claim 5, characterized in that the material

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contains aleuron and/or subaleuron layers of grains, which are crushed to a particle size less than 20 µm.

- 20. (New) A method for improving digestive solubility of a food or fodder comprising providing a food to a human comprising the product obtained by the method of claim 1.
- 21. (New) A method for controlling viscosity increase of a food or fodder comprising providing a food to a human comprising the product obtained by the method of claim 1.